

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20060286307"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:00
S2	1	S1 and (carbon atom)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:12
S3	1	S1 and plastic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:13
S4	14	"1058313"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:14
S5	2	"2003" and de and "1058313"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:15
S6	0	"1058313a1"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:15
S7	1	"10358313a1"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:16
S8	2	"10358313"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:16

S9	1	S1 and dot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:21
S10	1	S1 and releas\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/02 14:23
S11	1459	laser with (hardfac\$4 strengthen\$4 improv \$5) near2 surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:30
S12	481	S11 and laser with (heat\$4 preheat\$4 pretreat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:30
S13	251	S12 and laser near3 (first second multiple array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:31
S14	95	S13 and laser near2 (hardfac\$4 strengthen \$4 improv\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:32
S15	72	S14 and laser near2 (heat\$4 preheat\$4 pretreat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:32
S16	5	S15 and laser near3 (first second multiple opposi\$5) adj2 side	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:33
S17	14	S15 and laser near3 (first second multiple opposi\$5) adj2 (side surface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:33
S18	0	S17 and turb\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:35

S19	2	S15 and turb\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:36
S20	1	S14 and turb\$3 not S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:37
S21	0	S14 and turb\$3 not S19 not S20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:38
S22	9	laser with (hardfac\$4 strengthen\$4 improv \$5) near2 surface same (turbo\$9 turbine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:39
S23	4	laser with (hardfac\$4 strengthen\$4) near2 surface same (turbo\$9 turbine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:39
S24	1	laser with (hardfac\$4 strengthen\$4) with surface same (turbo\$9 turbine) not S23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:45
S25	1	"19720652"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:51
S26	0	"407185852"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:53
S27	3	"07185852"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:53
S28	898	laser with (opposi\$5 other) adj (side surface) with (simultaneous\$4 plural \$4 multiple)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:55

S29	9	S28 and laser with (hardfac\$5 strengthen \$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 12:56
S30	1	czerner.in. and laser with hardfacing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:09
S31	0	laser with hardfac\$4 same preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:11
S32	7	laser with hardfac\$4 and preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:11
S33	0	laser with hardfac\$4 and preheat\$4 with hardfac\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:13
S34	3	laser with hardfac\$4 and preheat\$4 same hardfac\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:13
S35	2	laser with hardfac\$4 and angle near2 inciden\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:27
S36	1	laser with hardfac\$4 and angle near2 adjust \$4 with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:30
S37	52	laser with harden\$5 and angle near2 adjust \$4 with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:31
S38	31	laser with harden\$5 and (plural\$4 multiple) near3 (laser beam) and angle near2 adjust \$4 with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:31

S39	5	laser with harden\$5 and (plural\$4 multiple) near3 (laser beam) and angle near2 adjust \$4 with (laser beam) with (surface workpiece)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:33
S40	81	laser with (harden\$5 anneal\$4) and laser near2 preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:41
S41	50	laser near2 (harden\$5 anneal\$4) and laser near2 preheat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:41
S42	23	laser near2 (harden\$5 anneal\$4) and laser near2 preheat\$4 and (plural\$4 multiple) near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:42
S43	0	S42 and (turbo\$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:46
S46	4	S41 and (turbo\$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:47
S47	4	laser near2 (harden\$5 anneal\$4) and (laser beam) near2 (multiple plural\$4) with (differ \$4 opposi\$4) adj2 side	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:55
S48	0	laser near2 (harden\$5 anneal\$4) and (laser beam) near2 (multiple plural\$4) with encirc \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:56
S49	0	laser same (harden\$5 anneal\$4) and (laser beam) near2 (multiple plural\$4) with encirc \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:57

S50	3	(harden\$5 anneal\$4) and (laser beam) near2 (multiple plural\$4) with encircl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:57
S51	796	(laser beam) near2 (multiple plural\$4) with (encircl\$4 surround\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:57
S52	27	(laser beam) near2 (multiple plural\$4) with (encircl\$4 surround\$4) same (weld\$4 anneal\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 13:58
S53	469	(laser beam) near2 (encircl\$4 surround\$4) same (weld\$4 anneal\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:00
S54	14	(multiple plural\$4) with (laser beam) near2 (encircl\$4 surround\$4) same (weld\$4 anneal\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:00
S55	11	opposi\$5 with (laser beam) near2 (encircl\$4 surround\$4) same (weld\$4 anneal\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:01
S56	1072	opposi\$5 near3 (laser beam) with (weld\$4 anneal\$4 ablat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:01
S57	23	opposi\$5 near3 (laser beam) with (weld\$4 anneal\$4 ablat\$4) same both adj side	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:02
S58	222	(laser beam) with (weld\$4 anneal\$4 ablat\$4) and measur\$5 near4 temperature same adjust\$4 near4 (laser power energ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:09

S59	97	(laser beam) with (weld\$4 anneal\$4 ablat\$4) and measur\$5 near4 temperature with adjust\$4 near4 (laser power energ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:09
S60	16	(laser beam) with (weld\$4 anneal\$4 ablat\$4) and measur\$5 adj2 temperature with adjust\$4 adj2 (laser power energ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:09
S61	651	(laser beam) with (weld\$4 anneal\$4 ablat\$4) with diode adj laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:12
S62	46	(laser beam) with (anneal\$4 hardfac\$5) with diode adj laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:13
S63	3	(laser beam) with (anneal\$4 hardfac\$5) with diode adj laser and (turbine turbo\$9 blade)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:13
S64	1	(laser beam) with (anneal\$4 hardfac\$5) same (turbine turbo\$9 blade) same diode adj laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:14
S65	5	(laser beam) with (anneal\$4 hardfac\$5) same (turbine turbo\$9 blade) and diode adj laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:14
S66	0	(laser beam) with (anneal\$4 hardfac\$5) same (turbine turbo\$9 blade) same subsequent\$4 adj5 process\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:23
S67	375	(laser beam) with (anneal\$4 hardfac\$5) same subsequent\$4 adj5 process\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:23

S68	49	(laser beam) with (anneal\$4 hardfac\$5) with subsequent\$4 adj process\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:23
S69	0	(laser beam) with (anneal\$4 hardfac\$5) with further adj process\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:24
S70	8	(laser beam) with (anneal\$4 hardfac\$5) adj9 subsequent\$4 adj process\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:24
S71	0	(laser beam) adj3 machining adj9 subsequent\$4 adj process\$5 and (turbo \$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:26
S72	2	(laser beam) adj3 machining adj9 subsequent\$4 adj3 process\$5 and (turbo \$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:26
S73	0	(laser beam) adj3 (anneal\$4 hardfac\$5 harden\$5) adj9 subsequent\$4 adj3 process\$5 and (turbo \$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:27
S74	1	(laser beam) with (anneal\$4 hardfac\$5 harden\$5) adj9 subsequent\$4 adj3 process\$5 and (turbo \$9 turbine blade rotor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:27
S75	19	(laser beam) with (anneal\$4 hardfac\$5 harden\$5) adj9 subsequent\$4 adj3 process\$5 not S74	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:28
S76	12	(laser beam) adj3 (anneal\$4 hardfac\$5 harden\$5) adj9 subsequent\$4 adj3 process\$5 not S74	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:29



S77	6	(laser beam) adj3 treat \$5 adj9 subsequent\$4 adj2 process\$5 not S74	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:30
S78	8	(laser beam) adj3 surface adj9 subsequent\$4 adj2 process\$5 not S74 not S75 not S76 not S77	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:31
S79	22	(US-20070017607-\$). did. or (US-4857699-\$ or US-7166175-\$ or US-5759641-\$ or US- 6664506-\$ or US- 6752593-\$ or US- 6759626-\$ or US- 6861612-\$ or US- 6857255-\$ or US- 4539462-\$ or US- 5080474-\$ or US- 7154067-\$ or US- 6270619-\$ or US- 5130721-\$ or US- 3938418-\$ or US- 5841098-\$ or US- 6883405-\$ or US- 5493445-\$).did. or (JP- 58106836-\$ or JP- 63149092-\$).did. or (US-6078022-\$ or DE- 4234339-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/05 14:40
S80	22	S79	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/05 14:40

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